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TITLE: TEMPERATURE CONTROLLER FOR
THERMAL PRINT HEAD

PUBN-DATE: January 16, 1986

INVENTOR-INFORMATION:

NAME

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INT-CL (IPC): B41J003/20

US-CL-CURRENT: 400/54

ABSTRACT:

PURPOSE: To perform a temperature control of a thermal print head smoothly without adding a special function, by controlling the power source voltage to be applied to the thermal print head utilizing a voltage drop compensating function of the power source circuit.

CONSTITUTION: The temperature of a thermal print head

1 is detected with a temperature detector 2 and an output of a temperature detection circuit 3 is converted into an digital signal with an A/D conversion circuit 4 to be inputted into an arithmetic processing circuit 5, which performs computation of a set voltage value corresponding to the detection temperature and the results are converted into an analog signal with a D/A conversion circuit 6 to be inputted into a thermal print head power source circuit 7, which controls the power source voltage to be applied to the thermal print head 1 according to the signal inputted into the power source circuit 7. As the voltage to be applied to the thermal print head 1 varies, the heating value of the thermal print head 1 changes to vary the temperature thereof 1 and the changes in the temperature is detected to be fed back with temperature detector 2. Thus, the temperature of the thermal print head 1 is controlled.

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Abstract Text - FPAR (2):

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